

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR

RE:

LYNDO TIPPETT SECRETARY

July 14, 2003

Addendum No. 1

Contract ID: C200691 (Proposal No.2)

Work Order No. 8.U401727 F. A. No. NHF-540 (2) Wake County (R-2000F)

I-540 (Northern Wake Expressway) From East of

US-1 South of Perry Creek Road to South of Buffaloe Road.

July 22, 2003 Special Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on the abovementioned project.

The following revisions have been made to the structure sub-surface plans:

Subsurface information for the following locations were inadvertently omitted and are being provided as a part of this addendum:

- Bridge on SR-2042 (Fox Road) Over-LRev-(Raleigh Outer Loop)
- Bridge on SR-2215 (Buffaloe Road) Over-LRev-(Raleigh Outer Loop)

The following revisions have been made to the structure plans:

On sheet no. S-47, the reference to "Sand Lightweight Concrete" in the PVC deck drain note has been revised. Please void sheet no. S-47 in your plans and staple the revised sheet no. S-47 thereto.

On sheet no. S-49, the deck drain spacing has been added. Please void sheet no. S-49 in your plans and staple the revised sheet no. S-49 thereto.

TELEPHONE: 919-250-4124

FAX: 919-250-4127

The following revisions have been made to the proposal form:

On Page Nos. 216 and 217 the project special provisions for "Utilities By Others" have been revised. Please void Page Nos. 216 and 217 in your proposal and staple the revised Page Nos. 216, 216-A and 217 thereto.

R. A. Garris, P.E. Contract Officer

RAG/jag/pa

Attachments

Cc: Mr. J. D. Goins, P.E.

Mr. S. D. DeWitt, P.E.

Mr. J. G. Nance, P.E.

Ms. D. M. Barbour, P.E.

Mr. J. V. Barbour, P.E.

Mr. J. F. Sullivan, III (FHWA)

Mr. Mark Staley (2)

Mr. Aydren Flowers

Mr. Ron Davenport, Jr., P.E.

Ms. Kim Canady

Ms. Yang Steelman

Project File (2)

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County: Wake Project: R-2000F

PROJECT SPECIAL PROVISIONS

Utility

UTILITIES BY OTHERS:

General:

The following utility companies have facilities that will be in conflict with the construction of this project.

- A) Carolina Power & Light Co. Power (Distribution)
- B) BellSouth Telephone
- C) Time Warner Communications CATV
- D) PSNC Energy Gas

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owner. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105-8 of the Standard Specifications.

Utilities Requiring Adjustment:

A) Carolina Power & Light Co. – Power (Distribution)

- 1. Station 11+60 to Station 14+45 YREV-A temporary power pole line, with teleph
 - A temporary power pole line, with telephone and CATV attached, will be installed left and right of –YREV- between Station 11+60 and Station 14+45. This work will be completed by October 15,2003. After completion of the bridge on –YREV- over Line –L-, a new permanent power pole line, with telephone and CATV attached, will be installed left and right of –YREV- between Station 11+60 and Station 14+45 and the temporary power line will be dismantled and removed. CP&L will require 30 days notice prior to when they can begin permanent work and 30 days to complete their permanent work.
- 2. Station 10+00 to Station 16+10 –Y1REV-A new power pole line, with telephone and CATV attached, will be installed left and right of –Y1REV- between Station 10+00 and Station 16+10 and the existing power line will be dismantled and removed. This work will be complete by August 1, 2003.
- 3. See Utilities by Others Plans for Details.

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B) BellSouth - Telephone

1. Station 11+60 to Station 14+45 – YREV-

A temporary telephone line, attached with CATV to CP&L poles, will be installed left and right of –YREV- between Station 11+60 and 14+45. BellSouth will complete their temporary work by December 1,2003. After completion of the bridge on –YREV- over Line –L-, a new permanent telephone line with CATV attached to power poles, will be installed left and right of –YREV- between the above Stations and the temporary telephone line will be dismantled and removed. BellSouth will require two weeks notice prior to when they can begin permanent work and will complete their work 90 days after CP&L completes their permanent pole relocation.

- 2. Station 10+80 to Station 15+18 –YREV-After rough grading and at the proper stage of construction, new buried telephone conduits will be installed left and right of –YREV- between Station 10+80 and Station 15+18. BellSouth will require two weeks notice and four weeks to complete the work.
- 3. Station 10+00 to Station 17+61 –Y1REV-A new telephone line, attached with CATV, to power poles will be installed right of –Y1REV- between Station 10+00 and Station 17+61. This work will be complete by October 1, 2003.
- 4. See Utilities by Others Plans for Details.

C) Time Warner Communications - CATV

1. Station11+60 to Station14+45 -YREV-

A temporary CATV line, attached with BellSouth to CP&L poles, will be installed left and right of-YREV- between Station 11+60 and Station 14+45. Time Warner will complete this work by November 15,2003. After completion of the bridge on –YREV- over Line –L-, a new permanent CATV line, with telephone attached to power poles, will be installed left and right of –YREV- between Station 11+60 and Station 14+45 and the temporary line will be dismantled and removed. Time Warner will require two weeks notice prior to when they can begin permanent work and will complete their work 60 days after CP&L has completed their permanent relocation.

- 2. Station10+00 to Station16+10 –Y1REV-Time Warner will attach with BellSouth to CP&L's power pole line. This work will be completed by September 1,2003.
- 3. See Utilities By Others Plans for Details.

D) PSNC Energy – Gas

1. Station12+10 Lt. to Station13+90 Lt. –YREV-After rough grading has been completed and at the proper stage of construction the Contractor shall contact PSNC Energy one (1) week prior to the date they can

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begin work. The gas company will be given one (1) week to complete their work in this area. See Utilities By Others Plans for Details.

NOTES

PROVIDE 32mm HIGH BEAM BOLSTERS UPPER AT 1.2m CTS. ATOP THE METAL STAY-IN-PLACE FORMS TO SUPPORT THE BOTTOM MAT OF 'A' BARS. WHEN USING REMOVABLE FORMS, PROVIDE CONTINUOUS HIGH CHAIRS FOR METAL DECK (C.H.C.M.) @ 1.2m CTS. WITH A HEIGHT TO SUPPORT THE BOTTOM MAT OF 'A' BARS A CLEAR DISTANCE OF 65mm ABOVE THE TOP OF THE REMOVABLE FORM.

THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF THE SIDEWALK.

METAL STAY-IN-PLACE FORMS SHALL NOT BE WELDED TO BEAM OR GIRDER FLANGES IN THE ZONES REQUIRING CHARPY V-NOTCH TEST. SEE STRUCTURAL STEEL DETAIL SHEETS.

PREVIOUSLY CAST CONCRETE IN A CONTINUOUS UNIT SHALL HAVE ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPg BEFORE ADDITIONAL CONCRETE IS CAST IN THE UNIT.

BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPg.

THE CONTRACTOR SHALL ADJUST THE GIRDER BUILDUPS AS NECESSARY TO INCORPORATE A MAXIMUM PERMISSIBLE VARIATION IN POT BEARING DEPTH OF 13mm, SEE SPECIAL PROVISION FOR POT

STRUCTURAL STEEL ERECTION IN A CONTINUOUS UNIT SHALL BE COMPLETE BEFORE FALSEWORK OR FORMS ARE PLACED ON THE UNIT.

THE CONTRACTOR MAY, WHEN NECESSARY, PROPOSE A SCHEME FOR AVOIDING INTERFERENCE BETWEEN METAL STAY-IN-PLACE FORM SUPPORTS OR FORMS AND BEAM/GIRDER STIFFENERS OR CONNECTOR PLATES. THE PROPOSAL SHALL BE INDICATED, AS APPROPRIATE, ON EITHER THE STEEL WORKING DRAWINGS OR THE METAL STAY-IN-PLACE FORM WORKING DRAWINGS.

PVC DECK DRAINS SHALL BE PAINTED WITH TWO COATS OF BROWN PRIMER MEETING THE REQUIREMENTS OF ARTICLE 1080-12 OF THE STANDARD SPECIFICATIONS. EACH COAT SHALL BE 0.050mm THICK. DECK DRAINS SHALL BE ROUGHENED PRIOR TO PAINTING. NO SEPARATE PAYMENT SHALL BE MADE FOR PAINTING PVC DECK DRAINS AS THIS IS CONSIDERED INCIDENTAL TO PAY ITEM FOR REINFORCED CONCRETE DECK SLAB.

TOP OF FLOOR DRAIN TO BE SET 10mm BELOW SURFACE OF SLAB.

4 - 13mm SQUARE LUGS TO BE GLUED TO THE PVC PLASTIC PIPE AT EQUAL SPACES AROUND THE PIPE DRAIN APPROXIMATELY 100mm FROM THE TOP OF THE PIPE.

COUPLING IN DRAIN PIPE WILL BE PERMITTED AS APPROVED BY THE ENGINEER.

FOR DECK DRAIN CONNECTOR, BOLT SIZE TO BE SAME AS DIAPHRAGMS AND CROSSFRAME CONNECTIONS. STAINLESS STEEL WORM DRIVE HOSE CLAMP SHALL BE COMMERCIAL QUALITY.

TYPICAL SECTION AT END BENT

3.000m

1.915m

1.085m

11.370m (OUT TO OUT)

9.000m (CLEAR ROADWAY)

— ℚ -Y- REV.

— #16 \`A'' BARS

26-#13 "B" BARS @ 440mm CTS.(TOP OF SLAB)

GRADE POINT -

0.05 m/m

4.200m

400, 12- #16 "B" BARS @ 220mm CTS. ,400,

57mm HIGH B.B.U. @ —

51mm HIGH B.B. @ 1.500m CTS.

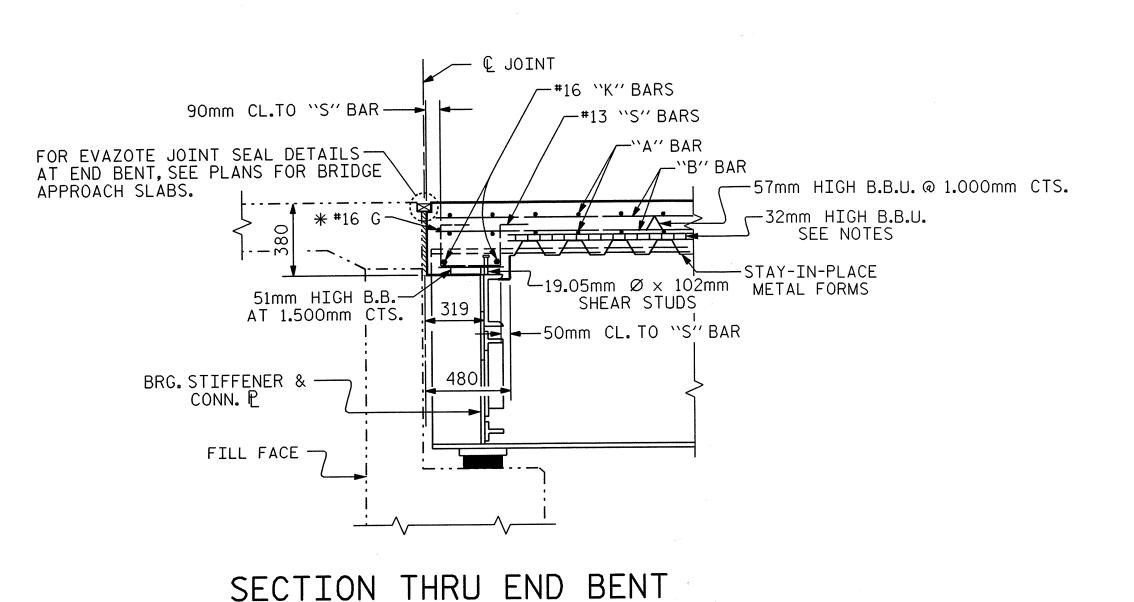
(TYP. EA. BAY)

3.000m

1.000m CTS.

____2- #16 K1 (OVER EA.EXT.GDR.)

2- #16 K2 (OVER EA. INT. GDR.)



* #16 "G" BAR MAY BE SHIFTED SLIGHTLY, AS NECESSARY, TO CLEAR STIRRUPS AND REINFORCING STEEL.

1.900m

400

Ā---Ā

300

105

600

1.185m

185

1- #13 "B" BAR-

83mm HIGH B.B. -

95mm HIGH B.B.-

5- #16 "B" BARS @ 220mm CTS.

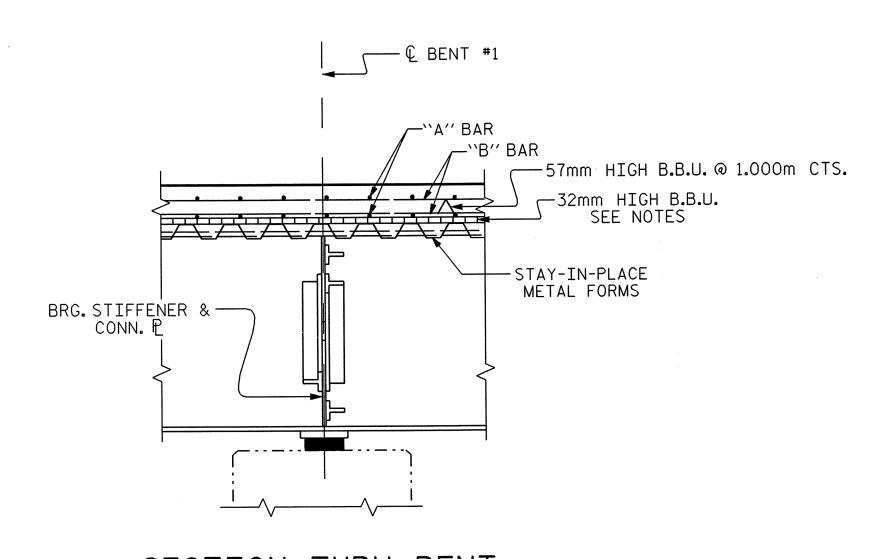
(TYP. EA. SIDE)

DRAWN BY: D. A. GLADDEN DATE: 6-24-02 CHECKED BY: C. CARTER DATE: 12-30-02

(TYP. EA. SIDE)

1.500m

-CONST.JT.



470

600

1.185m

185

38

- CONST. JT.

© 2- 25mm △ GROOVES

— 152mm HIGH C.HC.

121mm HIGH C.H.C

RADIAL DIMENSIONS

4.800m

SEE DETAIL "A"

9- #13 S1 @ 300m CTS. ALONG SKEW

(TYP. EA. BAY)

3.000m

(SHEET 2 OF 2)

65mm CL.

FOR BARRIER RAIL REINFORCING -

STEEL AND DETAILS, SEE "CONCRETE BARRIER RAIL" SHEET.

32mm B.B.U. —7

(SEE NOTES)

RADIAL DIMENSIONS

SECTION THRU BENT

R-2000F PROJECT NO. WAKE COUNTY

STATION: 363+53.676 -L- REV.

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE TYPICAL SECTION

REVISIONS						SHEET NO.
0.	BY:	DATE:	NO.	BY:	DATE:	5-47
1			8			TOTAL SHEETS
2			4			186

STR.#1

